2010

Windows Registry

[Using Registry and Registry Editor]

[Control your Operating system with a lot of options not available in windows settings , you will learn how to do a lot of settings without any application installation , more than 150 Common popular key in Windows, Software, Hardware and Security , Also Know how to backup your registry and it's key to work safely and simplify your work to yourself or your users]

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Contents At A Glance

اللهم أجعل هذا العمل

رحمة على روح المغفور له

الأستاذ / **وجيه محمد محمد سليمان**

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General view

A lot of users consider registry editor is dangerous place to work in it or edit it , so I preferred to talk about it and create small reference guide us to enter registry editor world .

Some expressions I will use :
O.S = Operating System . ex = example

* Registry appear first time with windows 95 and it was one of a major reasons for the failure of the 95 O.S., registry back again in new look with windows 98 after large improvement from Microsoft , Now Registry is one of Indispensable tools in any O.S. .

* What is Registry ? : Windows Registry is a hierarchical database that stores configuration settings and options on Microsoft Windows operating systems .

* What is registry Editor ? : Registry Editor is a tool comes with Operating system it allow us to work with registry database (adding keys , values or editing) .

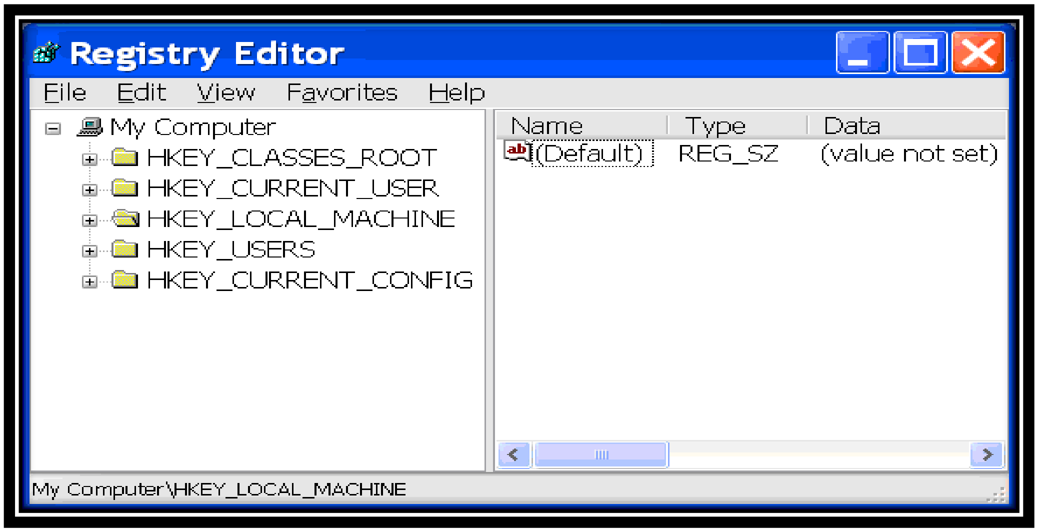
* In Other words registry is a database saves everything about your O.S , Software and Hardware settings , Most of installed application use registry to save some data , for simple ex. Open windows explorer , change its size and position then close it , reopen it again and note it will open in last position and size , windows explorer save its size and position in registry keys when you open it , it read those data and opened depending it .
  - we can't work with registry database directly when we need we must use any applications work with registry database , I recommend use windows registry editor , Fastest way to open it : ***Start*** → ***Run*** → ***regedit*** then ***OK*** or press ***enter*** .

* Do we need to use Registry ? As a professionals of course Yes , as we will see we can prepare a lot of advanced option by using registry and I need to say that we sometimes can remove the impact of some viruses by using registry .

🗐 How to use Registry Editor .

* As we mentioned Registry Editor is a tool embedded in O.S we can call it from : ***Start*** → ***Run*** → ***regedit*** then ***OK*** or press ***enter .***

* It will appear as the following :



View 1 (Registry Editor)

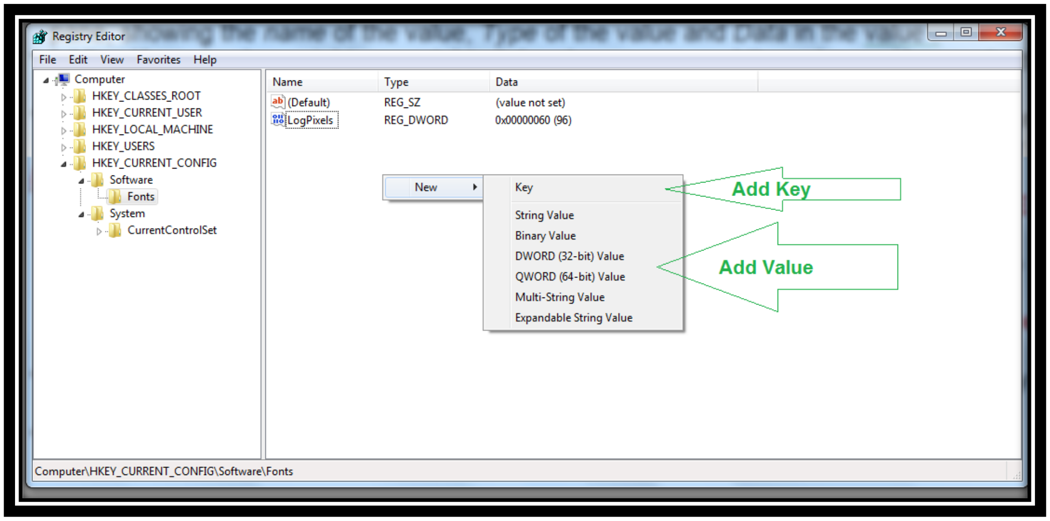
* The Registry Editor user interface contain menus like the usual type of menu found in Windows applications, and there are two panes, with a vertical bar between them that can be dragged with the mouse to adjust their width *(and we will need that).* In the left pane we see *My Computer*, and five Folders called root keys. Root keys named HKEY_CLASSES_ROOT or HKCR , HKEY_CURRENT_USER or HKCU , HKEY_LOCAL_MACHINE or HKLM , HKEY_USERS or HKU and HKEY_CURRENT_CONFIG or HKCC .

- The right pane shows the values contained in the selected key. There are three columns in the pane, showing the *name* of the value, *Type* of the value and *Data* in the value .

🖹 Root Keys:

- ***HKEY_CLASSES_ROOT*** : This key contain information's about file's type and its running applications, for Ex. Information needed to tell windows that TXT file's will be shelled by NOTEBOOK stored in this key .
  Its worthy mentioning that this key is a sub key from HKEY_LOCAL_MACHINE\SOFTWARE you will find it named Classes .
- ***HKEY_CURRENT_USER*** : every user have a private setting , this settings saved in , HKEY_USERS Key , when user logged on, windows automatically convert his setting location from HKEY_USERS Key to HKEY_CURRENT_USER key, if you adding or editing in HKEY_CURRENT_USER key it means that you add or edit to YOUR settings and your changes will not affect other users .
- ***HKEY_LOCAL_MACHINE*** : Contain information's about computer Hard Ware and terminal unites connected to it .
- ***HKEY_USERS*** : Contain ALL users settings , when user logged on his Key (or hive) move to HKEY_CURRENT_USER .
- ***HKEY_CURRENT_CONFIG*** : Contain information's about applications , O.S and Hardware . this key is a sub key from HKEY_LOCAL_MACHINE\CONFIG you find it named 0001

* Adding Key: simply on right pane right click , choose new and then choose Key , note that key will be created as a sub key under your current key , name your key and press enter .
* Adding value to a key : simply on right pane right click , choose new and then choose one of value types , value will be created under your current Key , name your value and press enter, change value data by right click on value name then choose Modify .(see view 2)



View 2 (add Key Or value)

Notes :

* **while working with registry we must care about case sensitive key SOFTWARE not equal to Software or SoftWare … etc .**
* **Don't Create any keys or values unless you backup your registry or your key as mentioned on page 9 .**

🖹 Value Type :

☞ First don't worry about those type and different between them, programmers and developers who matters about that but in general let us take a look about those type .

- ***String Value*** : shown as REG_SZ , this type contain text data with fixed length .
- ***Binary Value*** : shown as REG_BINARY, this type used to store most information regarding to computer component (Hardware) store As binary data, and appear in Registry Editor in hexadecimal format *(As we will see)* .
- ***DWORD Value*** : shown as REG_DWORD , this type chosen by most of drivers and services to store information , appear in Registry Editor in binary, or decimal, or hexadecimal.
- ***Multi-string Value*** : shown as REG_MULTI_SZ , this type contain multi values , inputs separated by commas or spaces .
- ***Expandable String Value*** السلاسل القابلة للتوسعة : shown as REG_EXPAND_SZ , used to store variable strength data .

* Registry Editor Menus : in this part I'll review some of important menu options in registry editor

* ***file → Export*** : export your registry (*like save as*), allow you to save all registry or specific key, click on any key then from file chose export, select saving location and write file name then click save.

🖹 You can Export registry in deferent formats :

- 🗋 Registration Files : Export your registry as registry file as a backup (*recommended*)
- 🗋Registry Hive files : hive files is a logical group of keys and values – *let us explain that* – every time new user log on to the computer a new *hive* created to that user This is called the *user profile hive*. A user's *hive* contains specific registry information (application settings, desktop, environment, network connections, and printers. User profile hives are located under the **HKEY_USERS** key) – export registry as hive files format allow you to re import file As a hive .
- 🗋Text File : No comment .
- 🗋Win9x/NT registration files : export as registration files for oldest versions of O.S .

* ***File → Import*** : retrieving exported files .

****File → Load Hive*** : to load hives exported , this option will not be available unless you select **HKEY_USERS** key *(As we explained)* .

* ***File → Unload Hive***: to unload loaded hive – you must select hive to enable unload hive option .

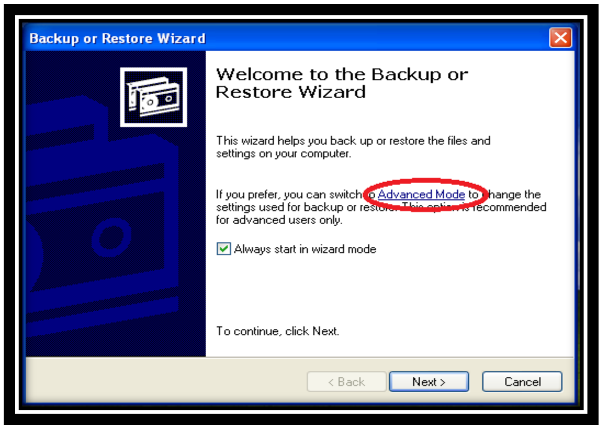
* ***Edit → New*** : *refer to view2 on page 8* .

* ***Edit → Permissions*** : protect your registry by allow users to use , edit , add ….. etc .

* ***Favorites → Add to Favorites*** : if you use registry key a lot of times add it to your favorites to access it easily *(like in internet explorer)* .

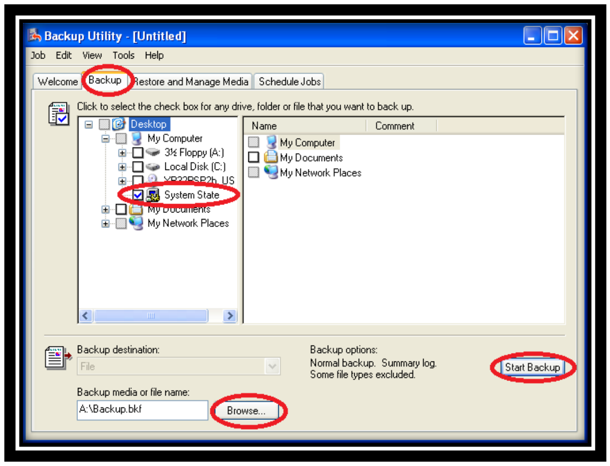
🗐 Backup your Registry:

* from *Start→All Programs → accessories → system tool → backup*
* from *Backup and restore wizard* click on *Advanced* Mode *(see view 3)* .



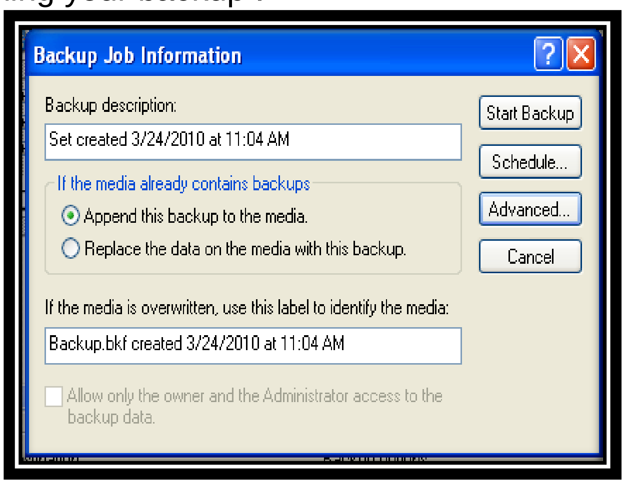
View 3 (Advanced Mode in Backup wizard)

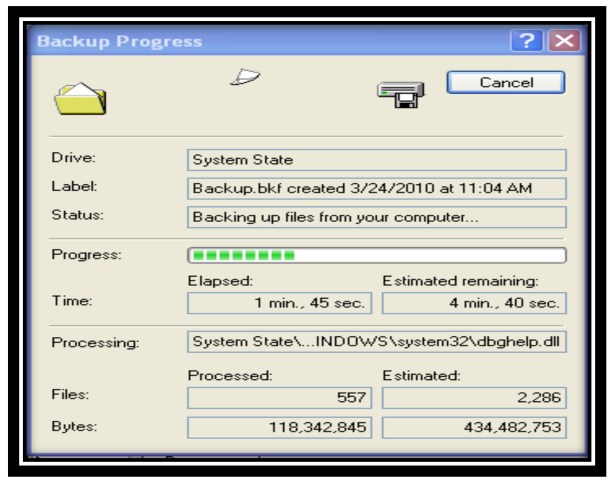
* From *backup tap* select *system State* and set backup location then press *start backup* *(see view 4)* . (system state will backup *Boot files and O.S registry*)



View 4 (start registry backup)

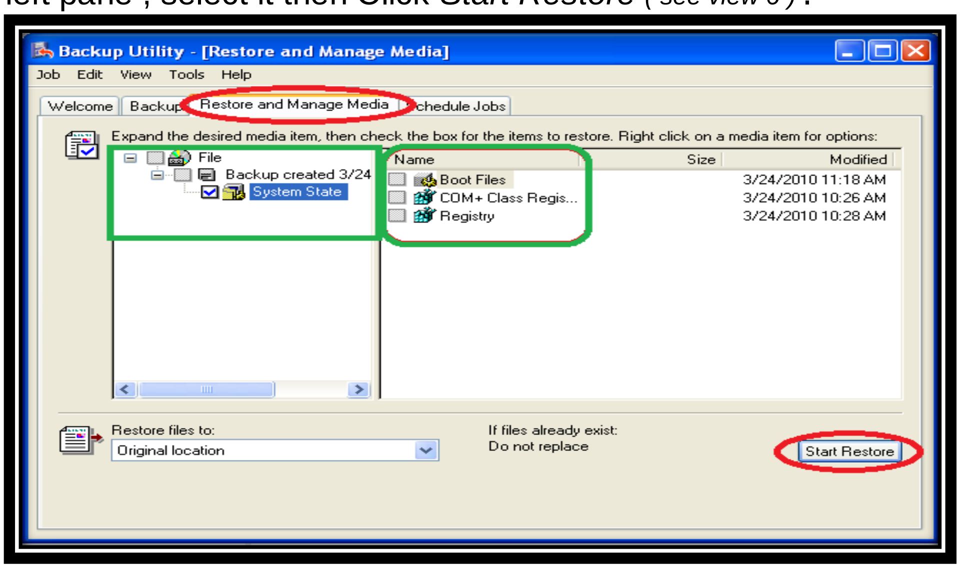
* Backup *job information* will appear click *start backup*, *Backup Progress* will appear, wait to finishing your backup .





View 5 (backup Progress)

☞ Restore Backup : in *backup utility* choose *restore and manage media* you will find your backup file in left pane , select it then Click *Start Restore* *(see view 6)* .



View 6 (restore backup)

Now we explained how to use registry editor so let us start working with registry itself .

CAUTION : ☝ Before starting you MUST do one of below 2 steps or both of them :
☑ Export your root key before add or edit to it (*or / and*),
☑ Backup your registry.

Notes : ☛ If I state Any key and you don't find it Create it .

Creating and editing keys and values .

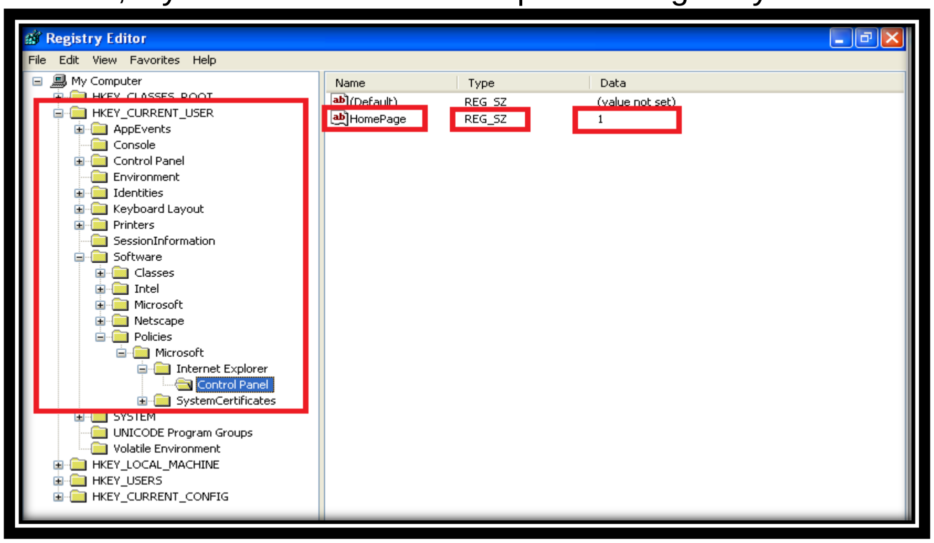
we will review little examples about how to set some settings can't be changed without working with registry as a training, after that we will review a lot of registry keys .

Ex.1 : Disallow user from change internet explorer Home Page find this key

HKEY_CURRENT_USER\Software\Policies\Microsoft\Internet Explorer\Control Panel\HomePage

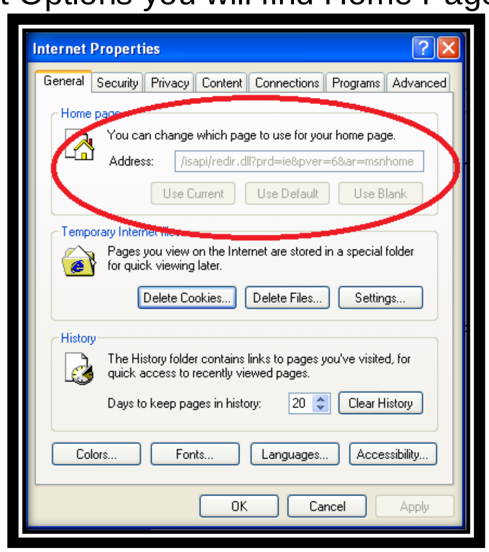
Remember: If you don't find Key Path, Create it and Create the value with data type string

Change value data to **1** , if you need to allow this Option change key value to **0** . *(see View 7)*



View 7 (disallow user from changing i.e home page)

- go to Control Panel → internet Options you will find Home Page Disabled *(see View 8)* .

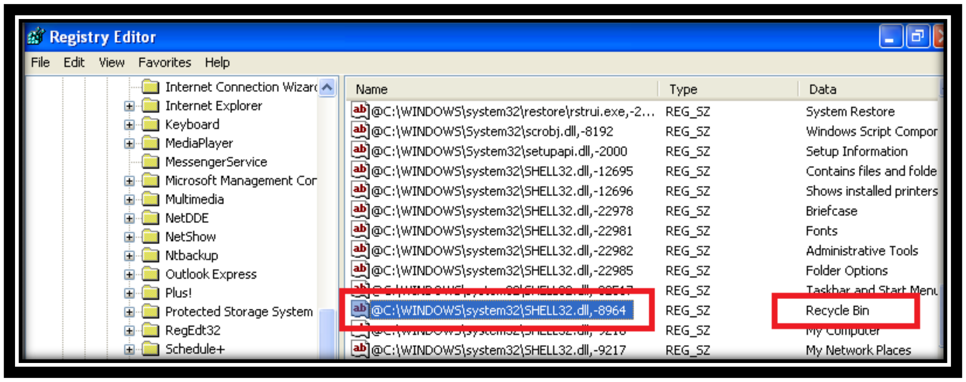


View 8 (Internet Explorer Home Page Disabled)

Ex.2 : Change recycle bin Name :

HKEY_CURRENT_USER\Software\Microsoft\Windows\ShellNoRoam\MUICache\@C:\WINDOWS\system32\SHELL32.dll,-8964

Rename recycle Pin As you need *(see view 9)*



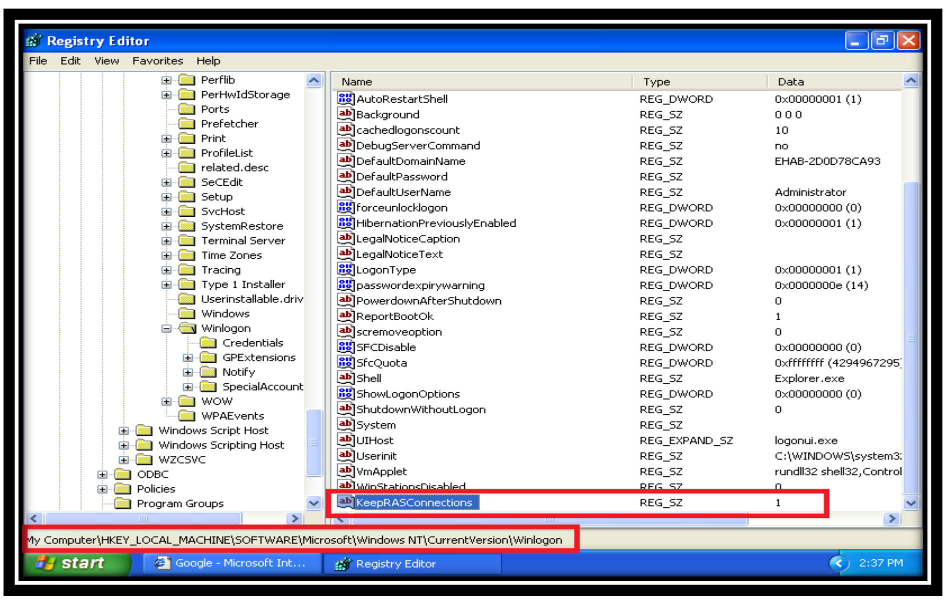
View 9 (rename recycle Bin name)

- Its worthy mentioning that you can rename all desktop icons unless recycle bin, if you changed any desktop icon name and need to back to original name simply press F2 and delete name then press enter , icon will named automatically by its *original name* , If you change any desktop icon name from mentioned registry key, this name *will be the original icon name (try that with my computer icon)* .

Ex.3 : Don't disconnect your internet connection when you logging off :

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WindowsNT\CurrentVersion\Winlogon\KeepRAS Connections

Change value data to 1 *(see view 10)* .

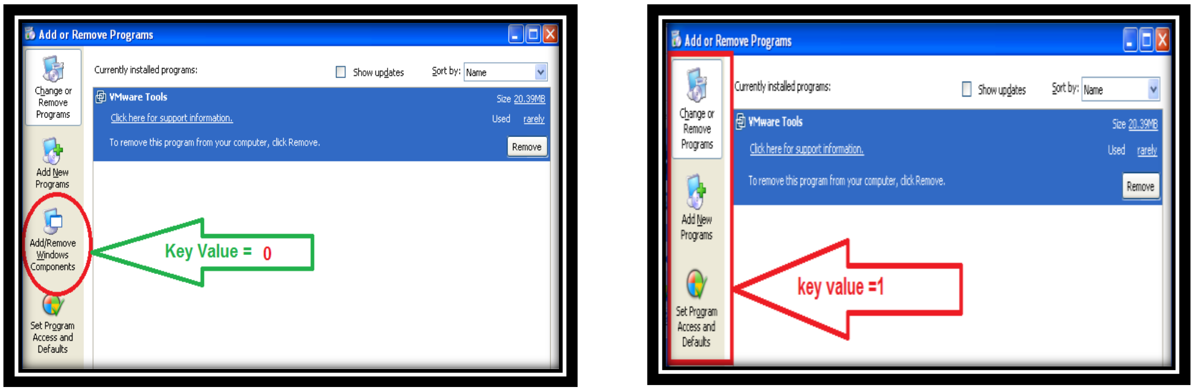


View 10 (keep internet connected when you logging off)

Ex.4: Disable Add/Remove windows component Key from add/remove program

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Uninstall\NoWindowsSetupPage

Change value to 1 *(see view 11)* .



View 11 (disallow add/remove windows component)

🖉 Ex.5 : Add user Administrator to log on users list :

HKEY_LOCAL_MACHINE\ SOFTWARE\ Microsoft\ WindowsNT\CurrentVersion\ Winlogon\ SpecialAccounts\ UserList

From Key Administrator change value to 1 , If it not exist Create it with type **DWARD** *(see view 12).*



View 12 (show user Administrator in logon users list)

🖉 Ex.6 : Remove All Programs Button from Start menu :

For current user :

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer

For All users :

HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer

Create DWARD Key name it NoStartMenuMorePrograms give it value 1 to disable button or 0 to enable it, and note that its *applies Only to the Windows XP Start Menu, not the Classic Start Menu and you will need to Restart your windows* (see view 13) .



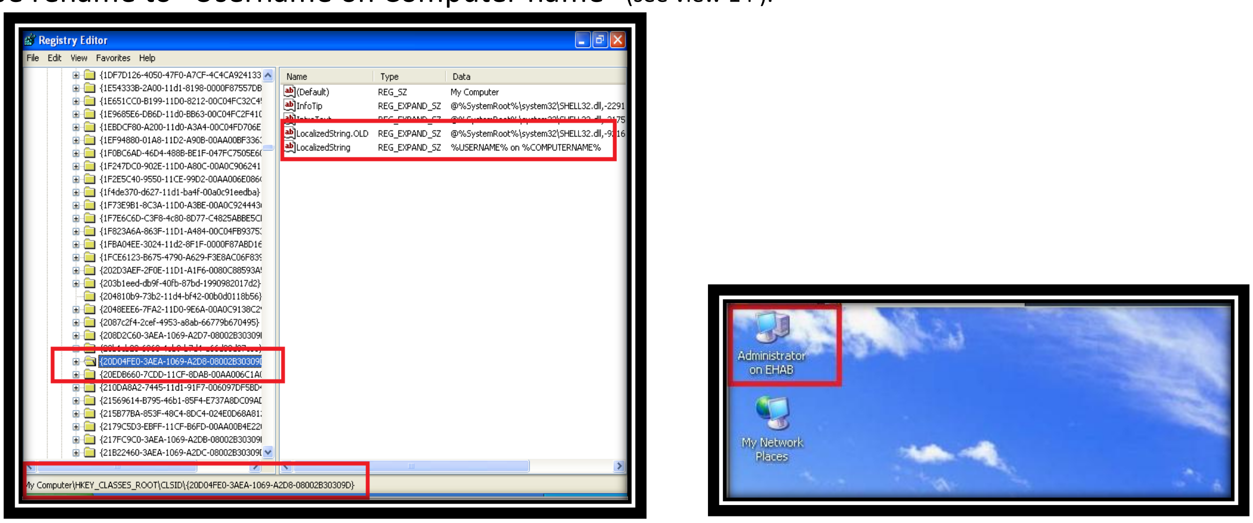
View 13 (disallow All programs button on start menu)

🖉 Ex.7 : Show User and Computer Name On Desk Top (*as my computer name*) .

HKEY_CLASSES_ROOT\CLSID\{20D04FE0-3AEA-1069-A2D8-08002B30309D}

Rename the value named "LocalizedString" to "LocalizedString.old", Create a new Expandable string value name it LocalizedString, and set the value to *%USERNAME% on %COMPUTERNAME%*

Exit the registry editor, click on your desktop and press F5 (for refresh). The "My Computer" icon should now be rename to "Username on Computer name" (see view 14).



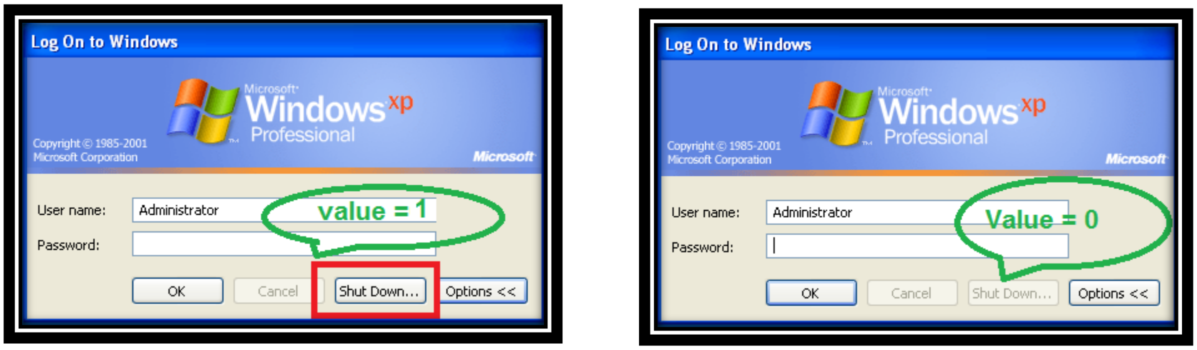
View 14 (Show username and computer name on desktop)

Note : ☛If you rename my computer icon it will be fixed name with all users but with above method name will change with every user logging on , you need internet explorer 6 or higher to apply this key .

🖉 Ex.8: Enable/Disable shutdown button in logon screen :

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\policies\system

Create a new DWORD value, or modify the existing value, called "ShutdownWithoutLogon" and set it to 1 to Enable shutdown button or to 0 to Disable it (see view 15).



View 15 (enable / disable shutdown button in log on screen)

🖉 Ex.9 : Hide Drive

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer

Create New DWARD value name it NoDrives

Set key value as the following :

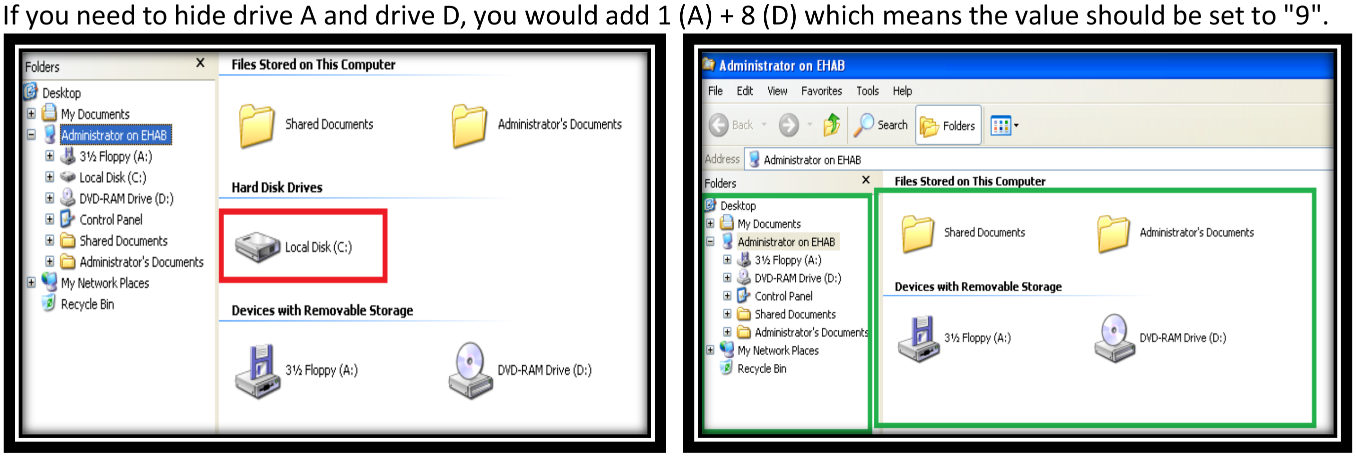
If you worked with hexadecimal : 1 for I Q Y, 2 for B J R Z, 4 for K C S, 8 for D L T, 16 for E M U, 32 for F N V, 64 for G O V and 80 for H P

To Hide drive c: key value = 4 , drive E: key value = 16 …. Etc, to show drive key value =00 or delete it, you need to log off to apply the key and note we applied key for CURRENT USER *(see view 16)*.

If you are not happy working in Hex, add these **DECIMAL** numbers to hide the drive(s):

A: 1, B: 2, C: 4, D: 8, E: 16, F: 32, G: 64, H: 128, I: 256, J: 512, K: 1024, L: 2048, M: 4096, N: 8192, O: 16384, P: 32768, Q: 65536, R: 131072, S: 262144, T: 524288, U: 1048576, V: 2097152, W: 4194304, X: 8388608, Y: 16777216, Z: 33554432, ALL: 67108863

If you need to hide drive A and drive D, you would add 1 (A) + 8 (D) which means the value should be set to "9".



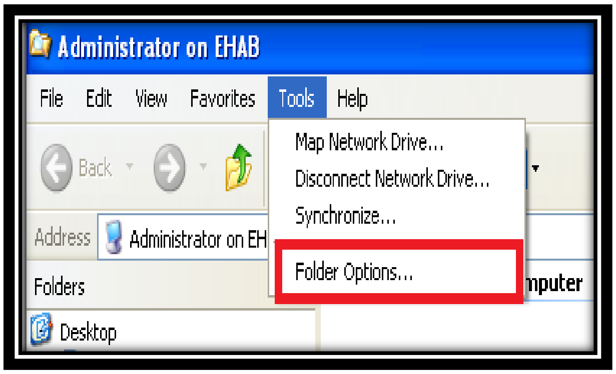
View 16 (hide drive C:)

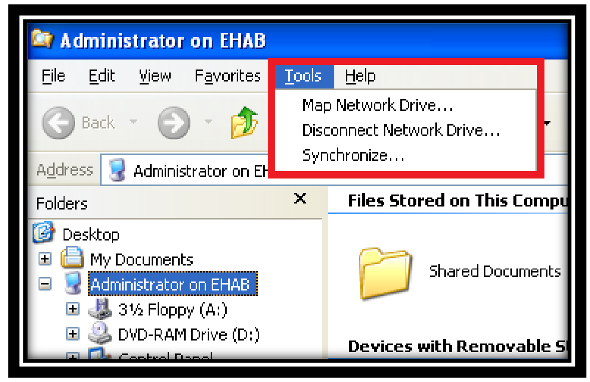
🖉 Ex.10: Enable/Disable Folder Option in windows explorer tools menu

HKEY_CURRENT_USER\Software\Microsoft\Windows\Current Version\Policies\Explorer Or

HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\Current Version\Policies\Explorer

If value named **NoFolderOptions** not exist create it as **DEWARD** type give it value 1 to disable Folder Option or delete the key to enable folder options (see view 17) .





View 17 (Enable/Disable Folder Options in windows explorer tools menu)

Try below 5 keys :

🖉Ex.11 : show start menu and all programs items sorted alphabetically :

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MenuOrder

Delete this Key

🖉Ex.12 : Activate Num Lock Key in start up :

- For all users : HKEY_USERS\.DEFAULT\ControlPanel\Keyboard\InitialKeyboardIndicators
- For Current user : HKEY_CURRENT_USER\Control Panel\Keyboard\InitialKeyboardIndicators

Change value to 2 , or to 0 to deactivate .

🖉 Ex.13 : change windows explorer Tips :

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Tips

Go ahead change tips as you like

🖉 Ex.14 : Don't move deleted items to recycle bin :

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer

Create DWARD value name it NoRecycleFiles set it to 1 for don't moving or set it to 0 to move deleted items to recycle bin , *you need to log off to apply this key* .

Note : ☛ We can summarize above key as below

System Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoRecycleFiles
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = allow Moving, 1 = Don't allow Move)

🖉Ex.15 : Close / Open USB

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\USBSTOR

Set start key Value to 4 to Close USB or 3 to open USB .

Using Some keys to change some Options .

Now let us review some of registry keys :

Notes:

- If you find the Key Modify It , If not Create It .
- You may need to restart or log off Windows for the change to take effect.

Windows Keys :

Disable Windows Installer : disallow users from install applications

System Key: [HKEY_LOCAL_MACHINE\Software\Policies\Microsoft\Windows\Installer]
Value Name: DisableMSI
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = admin only, 2 = disabled)

Enable Start Menu Scrolling :

User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced]
Value Name: StartMenuScrollPrograms
Data Type: REG_SZ (String Value)
Value Data: "Yes" or "No"

Show Options on Logon Dialog Box : options to enter a domain or to log on using a dial-up connection

System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon]
Value Name: ShowLogonOptions
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = hide options, 1 = display options)

Quick Edit the Command Prompt : allowing copy,paste text in the command prompt using the mouse

User Key: [HKEY_CURRENT_USER\Console]
System Key: [HKEY_USERS\.DEFAULT\Console]
Value Name: QuickEdit
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

Choose the First Desktop Icon

System Key: [HKEY_CLASSES_ROOT\CLSID\{450D8FBA-AD25-11D0-98A8-0800361B1103}]
Value Name: SortOrderIndex
Data Type: REG_DWORD (DWORD Value)
Value Data: (0x48 = My Documents, 0x54 = My Computer)
This change will only take effect when using "Auto Arrange" with the desktop icons.

Disable Task Manager

User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\System]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\System]
Value Name: DisableTaskMgr
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = disable Task Manager)

✍ **Remove My Computer from the Desktop and Start Menu**
User Key**:** [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\NonEnum]
System Key**:** [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\NonEnum]
Value Name**:** {20D04FE0-3AEA-1069-A2D8-08002B30309D}
Data Type**:** REG_DWORD (DWORD Value)
Value Data**:** (0 = show, 1 = remove)

✍ **Hide the Internet Explorer Icon**
User Key**:** [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key**:** [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name**:** NoInternetIcon
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

✍ **Disable Web Content in Explorer and Desktop**
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: ClassicShell
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = Default, 1 = Classic Desktop)

✍ control the appearance of the Windows Graphical User Interface (GUI), including changing the menus, mouse options and animation
User Key: [HKEY_CURRENT_USER\Control Panel\Desktop]
Value Name: UserPreferencesMask
Data Type: REG_BINARY (Binary Value)
Value Data: Bitmask

✍ **Change the Thumbnail Image Settings**
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Explorer]
Value Name: ThumbnailSize, ThumbnailQuality
Data Type: REG_DWORD (DWORD Value)
Value Data**:** Size in pixels, Quality Percentage
size of the image in pixels. The default is 96, quality percentage between 50% and 100%, the higher quality the larger the file. The default is 90 , Restart O.S to take effect .

✍ **Wrap Icon Titles :** This setting controls whether the icon titles should be word wrapped over multiple lines or shown in one longer line .
User Key**:** [HKEY_CURRENT_USER\Control Panel\Desktop\WindowMetrics]
Value Name**:** IconTitleWrap
Data Type: REG_SZ (String Value)
Value Data: (1 = Enabled, 0 = Disabled)

✍ **Change the Recycle Bin Icons to be whatever you like :**
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\CLSID\{645FF040-5081-101B-9F08-00AA002F954E}\DefaultIcon]
System Key**:** [HKEY_CLASSES_ROOT\CLSID\{645FF040-5081-101B-9F08-00AA002F954E}\DefaultIcon]
Value Name: (Default), Empty, Full

Data Type: REG_SZ (String Value)
Value Data: Icon Filenames

Automatically View Thumbnails of Bitmap Files
System Key: [HKEY_CLASSES_ROOT\Paint.Picture\DefaultIcon]
Value Name: (Default)
Data Type: REG_SZ (String Value)
Value Data: %1 (by default – change it)

Configure Notepad to use Word Wrap
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Notepad]
Value Name: fWrap
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = off, 1= on)

Show All Hidden Devices in Device Manager
System Key: [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Environment]
Value Name: DEVMGR_SHOW_NONPRESENT_DEVICES
Data Type: REG_SZ (String Value)
Value Data: (1 = show all hidden devices)

Disable Windows Installer Rollback
User Key: [HKEY_CURRENT_USER\Software\Policies\Microsoft\Windows\Installer]
Value Name: DisableRollback
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = disable rollback)

Add Command Prompt Option to Every Folder :
System Key: [HKEY_CLASSES_ROOT\Directory\shell]
Value Name: (Default)
Data Type: REG_SZ (String Value)
Value Data : cmd.exe /k cd %1

Disable the MS-DOS Command Prompt :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\WinOldApp]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\WinOldApp]
Value Name: Disabled
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable, 1 = enable)

Change the Command Prompt Colors :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Command Processor]
Value Name: DefaultColor
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default)

0	Black	4	Red	8	Gray	C	Light Red
1	Blue	5	Purple	9	Light Blue	D	Light Purple
2	Green	6	Yellow	A	Light Green	E	Light Yellow
3	Aqua	7	White	B	Light Aqua	F	Bright White

✍ **Remove or Change the Shortcut Arrow :**
* Delete the value named 'IsShortCut' from the keys [HKEY_CLASSES_ROOT\lnkfile], [HKEY_CLASSES_ROOT\piffile] and [HKEY_CLASSES_ROOT\InternetShortcut].
* **To Change the Icon:**
Open the key [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Shell Icons] and create a new string value, or modify the existing value, called '29'. Set it to equal the filename, including path, for the icon you want to use for the shortcut arrow .

✍ **Disable Low Disk Space Notification :**
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoLowDiskSpaceChecks
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = disable messages)

✍ **Change the Logon Screen Wallpaper :**
System Key: [HKEY_USERS\.DEFAULT\Control Panel\Desktop]
Value Name: Wallpaper
Data Type: REG_SZ (String Value)
Set Wallpaper to equal the path and filename of the bitmap (BMP) file you want to use as the background

✍ **Change the Logon Screen Background Color :**
User Key**:** [HKEY_USERS\.DEFAULT\Control Panel\Colors]
Value Name: Background
Data Type: REG_SZ (String Value)
Value Data: 0 0 0 - 255 255 255
Modify the value named 'Background' according to the color you would like in RGB (Red/Green/Blue) format. For example, "0 0 0" for black or "255 255 255" for white, and every other color in between.

✍ **Legal Notice Dialog Box Before Logon :**
User Key: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon
Value Name: LegalNoticeCaption, LegalNoticeText
Data Type: REG_SZ (String Value)
Modify the value named 'LegalNoticeCaption' to represent the caption on the dialog box (e.g. 'WARNING!'). If this value doesn't already exist create it.
Modify the value named 'LegalNoticeText' to represent the body of the dialog box (e.g. 'Do Not Attempt to Logon to this system unless you are an authorized user!')

✍ **Hide the Last User Name :**
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\System]
Value Name: DontDisplayLastUserName
Data Type: REG_SZ (String Value)
Value Data: (1 = remove username, 0 = display username)

✍ **Remove Username from the Start Menu**
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoUserNameInStartMenu

Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = display username, 1 = hide username)

Automatically Hide Inactive Tray Icons
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer]
Value Name: EnableAutoTray
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = display inactive icons, 1 = hide inactive icons)

Disable Taskbar Context Menus :
(right click on the taskbar) for the system tray, including the Start button, Tab control, and Clock
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoTrayContextMenu
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

Clear Recent Documents When Windows Exits :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: ClearRecentDocsOnExit
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable, 1 = enable)

Hide Start Menu Subfolders : hide any custom sub-folders from being shown in the top section of the Start Menu
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoStartMenuSubFolders
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = enable restriction)

Disable Save Settings at Exit :
When Windows exits it normally saves the desktop layout, including icon location, appearance and other parameters. This setting disables any changes from being saved .
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoSaveSettings
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

Automatically Reboot on the 'Blue Screen of Death :
Windows will usually freeze when getting a 'Blue Screen of Death' (BSOD). Changing this setting will force Windows to automatically reboot when it crashes instead.
System Key: [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\CrashControl]
Value Name: AutoReboot
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

✍ **Automatically Ending Hung Applications :**
force Windows to shutdown immediately ending all tasks without attempting to safely close any applications that have hung
User Key: [HKEY_CURRENT_USER\Control Panel\Desktop]
System Key: [HKEY_USERS\.DEFAULT\Control Panel\Desktop]
Value Name: AutoEndTasks
Data Type: REG_SZ (String Value)
Value Data: (0 = disabled, 1 = enabled)
Note :☛ The default time-out before ending the task is defined by the value of 'WaitToKillAppTimeout' located in the same key, this value is in milliseconds (default = 20000 i.e. 20 seconds). You can therefore additionally change this value to speed the process up

✍ **Specify the Response Time for Hung Applications :**
controls the amount of time to wait for a response from a hung application before the system task manager automatically terminates the task.
User Key: [HKEY_CURRENT_USER\Control Panel\Desktop]
System Key: [HKEY_USERS\.DEFAULT\Control Panel\Desktop]
Value Name: HungAppTimeout
Data Type: REG_SZ (String Value)
Value Data: Time in milliseconds (1000 = 1 second)

✍ **Hide Computer Management Option :**
remove the "Manage" option from the My Computer context menu .
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoManageMyComputerVerb
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = remove "Manage")

✍ **Disable the Windows Key :**
System Key: [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layout]
Value Name: Scancode Map
Data Type: REG_BINARY (Binary Value)
Value Data: 00 00 00 00 00 00 00 00 03 00 00 00 00 00 5B E0 00 00 5C E0 00 00 00 00

✍ **Force Windows to Unload DLLs from Memory :**
Windows Explorer caches DLLs (Dynamic-Link Libraries) in memory for a period of time after the application using them has been closed. This can be an inefficient use of memory on low memory systems, and may cause problems or delays for programmers developing with Windows DLL files.
System Key:
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\AlwaysUnloadDLL]
Value Name: Default
Data Type: REG_SZ (String Value)
Value Data: (1 = enable)

✍ **Manage Windows File Protection Scans :**
control whether the Windows File Checker (SFC) should scan and replace the protected files during boot up .
System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon]
Value Name: SFCScan
Data Type: REG_DWORD (DWORD Value)
Value Data: 0 = disabled, 1 = scan every boot, 2 = scan once

Change the Default NumLock State :
User Key: [HKEY_USERS\.DEFAULT\Control Panel\Keyboard]
Value Name: InitialKeyboardIndicators
Data Type: REG_SZ (String Value)
Value Data: 0 = NUMLOCK is turned off after logon, 2 = NUMLOCK is turned on after logon

Hide the Run as... option from the context menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: HideRunAsVerb
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = enabled, 1 = disabled)

Disable the Recycle Bin Properties Option :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoPropertiesRecycleBin
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable restriction, 1 = enable restriction)

Restore Folder Windows at Startup :
Make windows attempt to re-open any folders that were already open when the system was last shutdown
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced]
Value Name: PersistBrowsers
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = do not re-open, 1 = re-open windows)

Automatically Expand Folders in Explorer :
Control automatically expand folder in the left-hand folder list .
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced]
Value Name: FriendlyTree
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

Add Explore From Here to Every Folder :
When you right click on any folder this will give you an option to *Explore From Here*, which will open up an Explorer window of that folder .
System Key: [HKEY_CLASSES_ROOT\Directory\shell\Explore]
Value Name: (Default)
Data Type: REG_SZ (String Value)
Value Data: explorer.exe /e,/root,"%1"

Show items in "Send to" Context Menu :
control whether the "Send to" context menu is displayed when a file or directory object is right-clicked in Explorer.
System Key: [HKEY_CLASSES_ROOT\AllFilesystemObjects\shellex\ContextMenuHandlers\Send To]
Value Name: (Default)
Data Type: REG_SZ (String Value)
Value Data: (empty = disabled, "{7BA4C740-9E81-11CF-99D3-00AA004AE837}" = enabled)

✍ **Add a Menu Option to Move or Copy to a Folder :**

Easily move and copy files and folders by adding two new right-click menu options to "Move To Folder..." and "Copy To Folder...". Simply highlight the file, right-click the option and select the destination folder .

To enable the Copy To Folder menu option create a new subkey called "Copy To" and set the (Default) value to "{C2FBB630-2971-11d1-A18C-00C04FD75D13}".

To enable the Move To Folder menu option create a new subkey called "Move To" and set the (Default) value to "{C2FBB631-2971-11d1-A18C-00C04FD75D13}".

Changes should take effect immediately, right click on folder to view the new options

System Key**:** [HKEY_CLASSES_ROOT\AllFilesystemObjects\shellex\ContextMenuHandlers]
Value Name**:** (Default)
Data Type**:** REG_SZ (String Value)

✍ **Disable the Thumbnail Cache :**

User Key**:** [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced]
Value Name**:** DisableThumbnailCache
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = enabled, 1 = disable cache)

Soft Ware Keys (19 Key):

✍ **Open Favorites in a new window :**

Allow you to open favorites in new windows when you right click on it .

System Key: [HKEY_CLASSES_ROOT\InternetShortcut\shell\Open in a new window\command]
Value Name: (Default)
Data Type: REG_SZ (String Value)
Value Data: rundll32.exe shdocvw.dll,OpenURL %1

✍ **Disable the Internet Explorer HTML Source Editor Check ;**

User Key**:** [HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Main]
Value Name**:** CheckDocumentForProgID
Data Type**:** REG_SZ (String Value)
Value Data**:** "yes" or "no"

✍ **Show My Pictures Toolbar in Internet Explorer :**

When displaying an image in Internet Explorer a floating toolbar is shown that allows you to Save, Print, E-mail or Open the My Pictures folder. This setting allows you to hide the toolbar.

User Key**:** [HKEY_CURRENT_USER\Software\Policies\Microsoft\Internet Explorer\PhotoSupport]
Value Name**:** MyPics_Hoverbar
Data Type**:** REG_DWORD (DWORD Value)
Value Data**:** (0 = show bar, 1 = hide bar)

✍ **Change the Internet Explorer Navigation Sound :**

User Key**:** [HKEY_CURRENT_USER\AppEvents\Schemes\Apps\Explorer\Navigating\.current]
Value Name**:** (Default)
Data Type**:** REG_SZ (String Value)
Value Data**:** Sound Filename (Empty for no sound)

✍ **Specify the Default Internet Explorer Download Directory**

User Key**:** [HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer]
Value Name**:** Download Directory
Data Type**:** REG_SZ (String Value)
Value Data**:** Qualified Directory (d:\MyFiles)

Lock the Internet Explorer Toolbars :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Toolbar]
Value Name: Locked
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = unlocked, 1 = locked)

Automatically Resize Images in Internet Explorer to fit in a window :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Main]
Value Name: Enable AutoImageResize
Data Type: REG_SZ (String Value)
Value Data: Yes or No

Display a Background Bitmap on Explorer Toolbars :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Toolbar]
Value Name: BackBitmapShell
Data Type: REG_SZ (String Value)
Value Data: bitmap file location .

Change the Internet Explorer Window Title :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Main]
Value Name: Window Title
Data Type: REG_SZ (String Value)
Value Data: Title you need .
Note: *Delete the value of 'WindowTitle' to change the title back to the default*

Disable Password Caching in Internet Explorer :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings]
Value Name: DisablePasswordCaching
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = disable password cache)

Empty Temporary Internet Files when browser closed :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Cache]
System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Internet Settings\Cache]
Value Name: Persistent
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = empty, 1 = do not empty)

Disable the Norton AntiVirus Splash Screen :
System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Symantec\Norton AntiVirus\Clinic]
Value Name: DisableSplashScreen
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = enable splash, 1 = disabled splash)

Disable the Norton Utilities Splash Screen :
System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Symantec\Norton Utilities]
Value Name: DisableSplashScreen

Data Type: REG_SZ (String Value)
Value Data: (0 = enable splash, 1 = disabled splash)

Hide the Network tab in Media Player *8.0 or greater* **:**
User Key: [HKEY_CURRENT_USER\Software\Policies\Microsoft\WindowsMediaPlayer]
Value Name: HideNetworkTab
Data Type: REG_DWORD (DWORD Value)
Value Data: (0, 1)

Disable Recent Files in Media Player *8.0 or greater* **:**
User Key: [HKEY_CURRENT_USER\Software\Microsoft\MediaPlayer\Preferences]
Value Name: AddToMRU
Data Type: REG_BINARY (Binary Value)
Value Data: 00 = disabled, 01 = enabled

Change the Title of Windows Media Player :
User Key: [HKEY_CURRENT_USER\Software\Policies\Microsoft\WindowsMediaPlayer]
System Key: [HKEY_LOCAL_MACHINE\Software\Policies\Microsoft\WindowsMediaPlayer]
Value Name: TitleBar
Data Type: REG_SZ (String Value) .

Disable Background Notification Balloon in Messenger :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\MessengerService]
Value Name: DSBkgndMode
Data Type: REG_BINARY (Binary Value)
Value Data: (00 00 00 00 = default, 01 00 00 00 = disable message)

Change the Messenger Warning Message :
System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MessengerService\Policies]
Value Name: IMWarning
Data Type: REG_SZ (String Value)
Value Data: Warning Text

Change the Default Name and Company Information :
When you install a new application, using MS Setup, a default Name and Company are shown, these values can be changed when the details have changed or are incorrect .
User Key: [HKEY_CURRENT_USER\Software\Microsoft\MS Setup (ACME)\User Info]
Value Name: DefName, DefCompany
Data Type: REG_SZ (String Value)
Value Data: DefName= your name & DefCompany = your company name

Hard Ware Keys (10):

Show Detailed Information in Device Manager :
System Key: [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Environment]
Value Name: DEVMGR_SHOW_DETAILS
Data Type: REG_SZ (String Value)
Value Data: (0 = default, 1 = show detailed info)

✍ **Disable Universal Plug and Play Services :**
System Key: [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\upnphost]
Value Name: Start
Data Type: REG_DWORD (DWORD Value)
Value Data: (3 = enabled, 4 = disabled)

✍ **Show All Hidden Devices in Device Manager :**
System Key: [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Environment]
Value Name: DEVMGR_SHOW_NONPRESENT_DEVICES
Data Type: REG_SZ (String Value)
Value Data: (1 = show all hidden devices)

✍ **Disable CD Burning :** used to disable the use of the inbuilt CD recording functions of Windows
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoCDBurning
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = Allow CDR, 1 = Disable CDR)

✍ **Hard Disk Free Space Warning :**
By default Windows sends an administrative alert when the amount of free space remaining on a hard disk drive falls below 10 percent. This percentage can be configured .
System Key: [HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\LanmanServer\Parameters]
Value Name: DiskSpaceThreshold
Data Type: REG_DWORD (DWORD Value)
Value Data: 0 - 99 percent (Default is 10)

✍ **Control the CD-ROM Autorun Function :**
System Key: [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CDRom]
Value Name: Autorun
Data Type: REG_DWORD (DWORD Value)
Value Data: (0=disable, 1=enable)

✍ **Beep on Printer Errors :**
System Key: [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Print]
Value Name: BeepEnabled
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

✍ **View System Processor Information :**
System Key: [HKEY_LOCAL_MACHINE\HARDWARE\DESCRIPTION\System\CentralProcessor\0]
Value Name: ~MHz, Identifier, VendorIdentifier
Note: *These values are read-only and can only be viewed and not edited*

✍ **View System BIOS Information :**
System Key: [HKEY_LOCAL_MACHINE\HARDWARE\DESCRIPTION\System]
Value Name: SystemBiosDate, SystemBiosVersion, VideoBiosDate
Data Type: REG_SZ (String Value)
Note: *These values are read-only and can only be viewed and not edited*

Improve Core System Performance :

On systems with large amount of RAM this tweak can be enabled to force the core Windows system to be kept in memory and not paged to disk.

System Key: [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management]
Value Name: DisablePagingExecutive
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = disable system paging)

Security keys ( ):

Prevent Access to the Contents of Selected Drives :

prevents users from using My Computer or Explorer to access the content of selected drives. Also, they cannot use Run, Map Network Drive, or the Dir command to view the directories on these drives .
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoViewOnDrive
Data Type: REG_DWORD (DWORD Value)
Value Data: 32-bit bitmask (refer to Ex.9 – hide drive – on Page)

Restrict Users from Running Specific Applications :

User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: DisallowRun
Data Type: REG_DWORD (DWORD Value)
Value Data: 32-bit bit

Disable Registry Editing Tools :

User Key: [HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System]
Value Name: DisableRegistryTools
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = allow regedit, 1 = disable regedit)

Disable the Shut Down Command :

User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoClose
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = shutdown enabled, 1 = shutdown disabled)

Disable Active Desktop :

User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoActiveDesktop
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable restriction, 1 = enable restriction)

Remove Active Desktop Options from the Settings Menu :

User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoSetActiveDesktop

Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable restriction, 1 = enable restriction)

Restrict Changes to Active Desktop Settings :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoActiveDesktopChanges
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable restriction, 1 = enable restriction)

Stop Screen Saver from running :
User Key: [HKEY_CURRENT_USER\Software\Policies\Microsoft\Windows\Control Panel\Desktop]
Value Name: ScreenSaveActive, SCRNSAVE.EXE
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable screen savers, 1 = default)

prevent users from changing Screen Saver Password :
User Key: [HKEY_CURRENT_USER\Software\Policies\Microsoft\Windows\Control Panel\Desktop]
Value Name: ScreenSaverIsSecure
Data Type: REG_DWORD (DWORD Value)
Value Data: 0 - Screen savers are not password-protected & 1 - All screen savers are password-protected

specify the background wallpaper and display style :
When this setting is defined users can not choose an alternative background image.
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\System]
Value Name: Wallpaper, WallpaperStyle
Data Type: REG_SZ (String Value)
Value Data: Wallpaper = file name Path & WallpaperStyle=0 centered , 1 tiled and 2 Stretched .

Remove the Hardware Tab :
removes the hardware tab from applicable items in the Control Panel and from the local drive properties. This prevents users from changing the hardware device properties .
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoHardwareTab
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = enable restriction)

Remove Properties from My Computer :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoPropertiesMyComputer
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = Properties, 1 = No Properties)

Disable the New Menu Item :
System Key: [HKEY_CLASSES_ROOT\CLSID\{D969A300-E7FF-11d0-A93B-00A0C90F2719}]
Rename the key by placing a dash "-" in front of the GUID (i.e. {-D969A300-E7FF-11d0-A93B-00A0C90F2719}).

Disable the Ability to Right Click on the Desktop :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]

System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoViewContextMenu
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

Remove File Menu from Explorer :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoFileMenu
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

Disable Folder Options Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoFolderOptions
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = show options, 1 = hide options)

Hide All Items on the Desktop :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoDesktop
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable restriction, 1 = enabled restriction)

Disable Control Panel :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoControlPanel
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable restriction, 1 = enable restriction)

Deny Access to the Display Settings :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\System]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\System]
Value Name: NoDispCPL
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

Hide the Screen Saver Settings Page :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\System]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\System]
Value Name: NoDispScrSavPage
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

Hide the Display Background Page :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\System]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\System]

Value Name: NoDispBackgroundPage
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

✍Disable Add new Printers :

User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoAddPrinter
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

✍ Disallow Deleting Printers :

User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoDeletePrinter
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

✍ Require Users to Press Ctrl+Alt+Delete Before Logon :

System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon]
Value Name: DisableCAD
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = Require Ctrl+Alt+Delete, 1 = Disable)

✍ Customize the Windows Logon and Security Dialog Title :

Add additional text to the title of the standard Windows Logon and Windows Security dialog boxes .
System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon]
Value Name: Welcome
Data Type: REG_SZ (String Value)
Value Data: Text to display

✍ Require Alphanumeric Windows Password :

Windows by default will accept anything as a password, including nothing. This setting controls whether Windows will require a alphanumeric password, i.e. a password made from a combination of alpha (A, B, C...) and numeric (1, 2 ,3 ...) characters .
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Network]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Network]
Value Name: AlphanumPwds
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1=enabled)

✍ Set the Minimum Password Length :

User Key: [HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Network]
System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Network]
Value Name: MinPwdLen
Data Type: REG_BINARY (Binary Value)
Note: *☛ This does not apply to existing passwords, only new or changed .*

✍ Changing the Password Expiry Warning Period :

System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon]
Value Name: PasswordExpiryWarning
Data Type: REG_DWORD (DWORD Value)
Value Data: Number of Days (Default = 14)

✍ Legal Notice Dialog Box Before Logon :
create a dialog box that will be presented to any user before logging onto the system .
System Key: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon
Value Name: LegalNoticeCaption, LegalNoticeText
Data Type: REG_SZ (String Value)
Value Data : Do Not Attempt to Logon to this system unless you are an authorized user
Note: *☛ This value is limited to 256 characters, you need to install the latest Windows NT service pack to allow up to 1024 characters*

✍ Remove Log Off from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoLogOff
Data Type: REG_DWORD (DWORD Value)
Value Data: (1 = no log off, 0 = show log off)

✍ Remove My Network Places from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoStartMenuNetworkPlaces
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = show, 1 = remove)

✍ Hide the Taskbar Clock :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: HideClock
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = Show Clock, 1 = Hide Clock)

✍ Hide or Display Administrative Tools Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced]
Value Name: StartMenuAdminTools
Data Type: REG_SZ (String Value)
Value Data: Yes or No

✍ Remove Run from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoRun
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

✍ Remove Search from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoFind
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disabled, 1 = enabled)

Remove My Music from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoStartMenuMyMusic
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = remove folder)

Remove My Pictures from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoSMMyPictures
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = default, 1 = remove folder)

Remove My Documents from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoSMMyDocs
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable restriction, 1 = enable restriction)

Remove Network Connections from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoNetworkConnections
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = disable restriction, 1 = enable restriction)

Remove Favorites from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoFavoritesMenu
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = show favorites, 1 = no favorites)

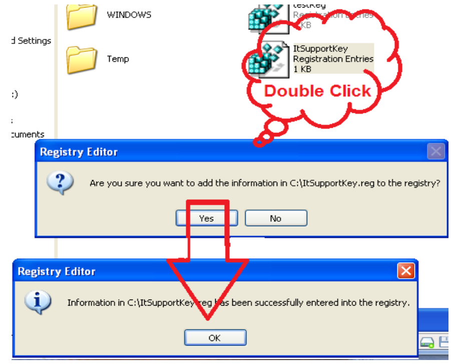
Remove Recent Documents from the Start Menu :
User Key: [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
System Key: [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer]
Value Name: NoRecentDocsMenu
Data Type: REG_DWORD (DWORD Value)
Value Data: (0 = display, 1 = remove)

Secure Access to Removable Drives :
System Key: [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon]
Value Name: AllocateDASD
Data Type: REG_SZ (String Value)
Value Data: 0 = Administrators only ,1=Administrators and power users and 2=Administrators and the interactive user .

🗐 Simplify add or edit registry values .

* Now as we shown registry gives you full power on your O.S , but we face a difficulty is a key long path in case if we work with key or some keys many times .
In this case we can simplify Access to keys in many ways ….
You can add Key to favorites from ***Favorites → Add to Favorites*** In case if you use the same machine.

But if you use the same key many times but from different machines in your organization in this case adding to favorites will not be the best solution, in this case we need to create file to add or edit to registry by clicking or run it , let us do that …



✍ Creating Registry files :

Ex. Go to [HKEY_LOCAL_MACHINE\Software] , Create Key name it ItSupport create two or three value with any name, type and data .
Now if you need to repeat this action many times in many computers in your area, simply select *ItSupport* key and *export* it as registry file (see page 9 *"File → export "*), copy it to any other machine , run it and check registry you will find the key created with its values .

✍Creating programming Module (ADVANCED) :

Third way if you design programs using any programming language you can design a small application to add or edit to registry depending on your programming language , Below code used in Visual Basic, Copy it to module or class and continue your project and note functions names (*colored in red*) and of course note variable named ..

Code :

```
Option Explicit
Public Const HKEY_CURRENT_USER = &H80000001
Public Const REG_SZ = 1
Public Const REG_DWORD = 4
Public Declare Function RegCloseKey Lib "advapi32.dll" (ByVal Hkey As Long) As Long
Public Declare Function RegCreateKey Lib "advapi32.dll" Alias "RegCreateKeyA" (ByVal Hkey As Long, ByVal lpSubKey As String,_
phkResult As Long) As Long
Public Declare Function RegDeleteKey Lib "advapi32.dll" Alias "RegDeleteKeyA" (ByVal Hkey As Long, ByVal lpSubKey As String) As Long
Public Declare Function RegDeleteValue Lib "advapi32.dll" Alias "RegDeleteValueA" (ByVal Hkey As Long, ByVal lpValueName As String) As
    Long
Public Declare Function RegOpenKey Lib "advapi32.dll" Alias "RegOpenKeyA" (ByVal Hkey As Long, ByVal lpSubKey As String, phkResult As
    Long) As Long
Public Declare Function RegQueryValueEx Lib "advapi32.dll" Alias "RegQueryValueExA" (ByVal Hkey As Long, ByVal lpValueName As_
    String, ByVal lpReserved As Long, lpType As Long, lpData As Any, lpcbData As Long) As Long
Public Declare Function RegSetValueEx Lib "advapi32.dll" Alias "RegSetValueExA" (ByVal Hkey As Long, ByVal lpValueName As String,_
ByVal Reserved As Long, ByVal dwType As Long, lpData As Any, ByVal cbData As Long) As Long
Public Enum OptionEnabled
    Disable = 1
    Enable = 0
    GetValue = 2
End Enum
Public Function GetString (Hkey As Long, strPath As String, strValue As String)
    Dim keyhand As Long
    Dim datatype As Long
    Dim lResult As Long
    Dim strBuf As String
    Dim lDataBufSize As Long
    Dim intZeroPos As Integer
    Result = RegOpenKey(Hkey, strPath, keyhand)
    lResult = RegQueryValueEx(keyhand, strValue, 0&, lValueType, ByVal 0&,lDataBufSize)
    If lValueType = REG_SZ Then
        strBuf = String(lDataBufSize, " ")
        lResult = RegQueryValueEx(keyhand, strValue, 0&, 0&, ByVal strBuf,lDataBufSize)
        If lResult = ERROR_SUCCESS Then
            intZeroPos = InStr(strBuf, Chr$(0))
```

```
                If intZeroPos > 0 Then
                    GetString = Left$(strBuf, intZeroPos - 1)
                Else
                    GetString = strBuf
                End If
            End If
        End If
    End Function
    Public Sub SaveString (Hkey As Long, strPath As String, strValue As String,strdata As String)
        Dim keyhand As Long
        Dim Result As Long
        Result = RegCreateKey(Hkey, strPath, keyhand)
        Result = RegSetValueEx(keyhand, strValue, 0, REG_SZ, ByVal strdata,Len(strdata))
        Result = RegCloseKey(keyhand)
    End Sub
    Function GetDword(ByVal Hkey As Long, ByVal strPath As String, ByVal
        strValueName As String) As Long
        Dim lResult As Long
        Dim lValueType As Long
        Dim lBuf As Long
        Dim lDataBufSize As Long
        Dim Result As Long
        Dim keyhand As Long
        Result = RegOpenKey(Hkey, strPath, keyhand)
        lDataBufSize = 4
        lResult = RegQueryValueEx(keyhand, strValueName, 0&, lValueType, lBuf,
        lDataBufSize)
        If lResult = 0 Then
            If lValueType = REG_DWORD Then
                GetDword = lBuf
            End If
        End If
        Result = RegCloseKey(keyhand)
    End Function
    Function SaveDword(ByVal Hkey As Long, ByVal strPath As String, ByVal,strValueName As String, ByVal lData As Long)
        Dim lResult As Long
        Dim keyhand As Long
        Dim Result As Long
        Result = RegCreateKey(Hkey, strPath, keyhand)
        lResult = RegSetValueEx(keyhand, strValueName, 0&, REG_DWORD,lData, 4)
        Result = RegCloseKey(keyhand)
    End Function
```

With thanks

Ehab Ragab